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TITLE: MANUFACTURE OF BIOLOGICAL SAMPLE FOR SCANNING
ELECTRON MICROSCOPE, DEVICE THEREFOR AND BIOLOGICAL
SAMPLE OBSERVING METHOD

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ABSTRACT:

PURPOSE: To provide a manufacturing method of a biological sample for a scanning electron microscope without the deformation of the sample, a device therefor, and a biological sample observing method.

CONSTITUTION: A control device 14 sends a cooling signal to a power supply 16. As a result, a sample holder 11 positioned on a thermo-module is cooled, and a sample 12 is also cooled. The control of the control device 14 stopping the supply of the cooling signal at the time of -45deg;C is based on the data stored in a memory 15. The control device 14 sets the vacuum degree

of a
sample chamber 2 to a low vacuum state between 0.01Torr and 2Torr,
and the
control device 14 sends a heating signal to the power supply 16. The
heating
temperature of the sample 12 gradually rises and stops when the
temperature of
the sample 12 reaches 15°C. Upon terminating such treatment of
the sample
12, electron beams irradiate the sample 12 in the low vacuum state,
and a
sample image is displayed on a display device on the basis of the
reflected
electrons emitted from the sample 12.

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